CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.08/AA/CSR-10/655b/CEMENT/2014-15 Date: 22.10.2014

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
***AGENCY**	:	**Mr. Ashwathnarayana Anjanappa,** No. 38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore – 13.
***NAME OF THE WORK**	:	Improvements of drains and construction of cement concrete road at Kodigehalli Village in Ward No. 08 Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/Kodigehalli/PR/ /2014-15 Dated: 20.10.2014
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	20.10.2014
PERIOD OF TESTING	:	20.10.2014 to 22.10.2014

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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A.E.E.

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Job No.: CTCE/BBMP/W.No.08/AA/CSR-10/655b/SAND-Gradation/2014-15 : 22.10.2014

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Ashwathnarayana Anjanappa,**
No. 38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore – 13.

*** Name of Work** : Improvements of drains and construction of cement concrete road at Kodigehalli Village in Ward No. 08 Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/Kodigehalli/PR/ /2014-15 Dated: 20.10.2014

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 20.10.2014

Date of Testing : 22.10.2014

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.20	90-100	90-100	90-100	95-100
2.36	79.30	60-95	75-100	85-100	95-100
1.18	58.70	30-70	55-90	75-100	90-100
600 Micron	39.50	15-34	35-59	60-79	80-100
300 Micron	15.80	5-20	8-30	12-40	15-50
150 Micron	4.50	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Job No.: CTCE/BBMP/W.No.08/AA/CSR-10/655b/AGG/GR/2014-15 : 22.10.2014

TEST REPORT ON COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Ashwathnarayana Anjanappa,**
No. 38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore – 13.

*** Name of Work** : Improvements of drains and construction of cement concrete road at Kodigehalli Village in Ward No. 08 Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/Kodigehalli/PR/ /2014-15 Dated: 20.10.2014

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 20.10.2014

Date of Testing : 22.10.2014

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single sized
80	100	100	-
63	100	-	100
40	96.44	95-100	85-100
20	49.29	30-70	0-20
10	14.32	10-35	0-5
4.75	2.47	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.08/AA/CSR-10/655b/CUBE/2014-15

24.11.2014

TEST REPORT ON CONCRETE CUBES

*** Customer**	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	: **Mr. Ashwathnarayana Anjanappa,** No. 38, Channappa Layout, Sharadamba Nagara, Jalahalli Village, Bangalore – 13.
*** Name of the work**	: Improvements of drains and construction of cement concrete road at Kodigehalli Village in Ward No. 08 Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: AEE/Kodigehalli/PR/ /2014-15 Dated: 20.10.2014
*** Sample ID**	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*** Grade of Concrete**	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 22.11.2014

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.10.2014	24.11.2014	8.158	480.9	21.37
2	27.10.2014	24.11.2014	8.264	504.6	22.43
3	27.10.2014	24.11.2014	8.367	523.3	23.26

* Information is furnished by the Customer/Representative

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